

102.2 - Cobalt Base Alloys (chip and disk forms)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	862	1242	1775	2175
Description	High-Temperature Alloy L 605	High Temperature Alloy L 605	Refractory Alloy MP-35-N	Refractory Alloy MP-35-N
Unit of Issue	(100 g)	(disk)	(disk)	(150 g)

Concentration are expressed as mass fraction, in %.

Aluminum (Al)	(<0.01)	(<0.01)	0.024	0.024
Boron (B)	(<0.0001)	(<0.0001)	0.0097	0.0097
Carbon (C)	0.120	0.126	0.0051	0.0051
Chromium (Cr)	20.0	20.0	20.4	20.4
Cobalt (Co)	51.5	51.5	33.3	33.3
Copper (Cu)	0.0010	0.0010	0.0046	0.0046
Iron (Fe)	1.80	1.80	0.91	0.91
Manganese (Mn)	1.59	1.58	0.0121	0.0121
Molybdenum (Mo)			9.508	9.508
Nickel (Ni)	9.74	9.78	34.91	34.91
Niobium (Nb)	(<0.005)	(<0.005)	0.03	0.03
Nitrogen (N)	0.026	0.026	0.002	0.002
Phosphorus (P)	0.002	0.002	0.0006	0.0006
Silicon (Si)	0.017	0.016	0.02	0.02
Sulfur (S)	0.0008	0.0007	0.013	0.0013

Concentration are expressed as mass fraction, in %.

Tantalum (Ta)	(<0.01)	(<0.01)		
Tungsten (W)	15.1	15.1	0.02	0.02
Vanadium (V)	0.005	0.005	0.0095	0.0095

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only